## IN THE CLAIMS:

Cancel claims 5 and 12.

Amend claims 1, 6, 7, 9, 11, and 13 - 15 as set forth below:

- 1. (currently amended) A method of predicting the lapping property of a lapping plate, comprising:
- (a) positioning a tool on a lapping plate;
- (b) rotating the lapping plate;
- (c) restraining the tool relative to the lapping plate;
- (d) measuring frictional force between the tool and the lapping plate;
- (e) measuring a consumption of the tool by the lapping plate by detecting a gap distance between the tool and the lapping plate; and
- (f) determining a lapping rate of the lapping plate.
- 2. (original) The method of claim 1, further comprising rotating the lapping plate for a specific time so that adequate removal of material from the tool occurs, determining the lapping rate over a time interval, and assessing the lapping rate and friction to determine if the lapping plate is acceptable.
- 3. (original) The method of claim 1, further comprising determining the lapping rate under a fixed load and a fixed rotation speed, and thereby calculating a coefficient of friction and a Preston coefficient of the lapping plate.
- 4. (original) The method of claim 1, wherein step (e) is non-invasive.
- 5. (canceled)
- 6. (currently amended) [[The method of claim 1, wherein step (c) comprises]] A method of predicting the lapping property of a lapping plate, comprising:
- (a) positioning a tool on a lapping plate;
- (b) rotating the lapping plate;

- (c) restraining the tool relative to the lapping plate by holding the tool with a set of guide wheels that keep the tool in place when the lapping plate is rotating;
- (d) measuring frictional force between the tool and the lapping plate;
- (e) measuring a consumption of the tool by the lapping plate; and
- (f) determining a lapping rate of the lapping plate.
- 7. (currently amended) [[The method of claim 1,]] A method of predicting the lapping property of a lapping plate, comprising:
- (a) positioning a tool on a lapping plate;
- (b) rotating the lapping plate;
- (c) restraining the tool relative to the lapping plate;
- (d) measuring frictional force between the tool and the lapping plate;
- (e) measuring a consumption of the tool by the lapping plate;
- (f) determining a lapping rate of the lapping plate; and further comprising mounting a plurality of specimens to the tool for contact with and consumption by the lapping plate.
- 8. (original) The method of claim 1, further comprising charging the lapping plate with abrasive.
- 9. (currently amended) [[The method of claim 1,]] A method of predicting the lapping property of a lapping plate, comprising:
- (a) positioning a tool on a lapping plate;
- (b) rotating the lapping plate;
- (c) restraining the tool relative to the lapping plate;
- (d) measuring frictional force between the tool and the lapping plate;
- (e) measuring a consumption of the tool by the lapping plate;
- (f) determining a lapping rate of the lapping plate; and further comprising adding a weight to the tool so that the tool and the lapping plate experience a pressure that is analogous to a slider lapping pressure.

- 10. (original) The method of claim 1, wherein step (d) comprises using a strain gage.
- 11. (currently amended) A method of predicting the lapping property of a lapping plate, comprising:
- (a) positioning a tool on a lapping plate that is charged with abrasive;
- (b) rotating the lapping plate for a specific time to remove material from the tool;
- (c) restraining the tool relative to the lapping plate;
- (d) measuring frictional force between the tool and the lapping plate;
- (e) measuring a consumption of the tool by the lapping plate <u>non-invasively and detecting a</u> gap distance between the tool and the lapping plate; and
- (f) determining a lapping rate of the lapping plate over a time interval, and assessing the lapping rate and friction to determine if the lapping plate is acceptable, wherein the lapping rate is determined under a fixed load and a fixed rotation speed, and thereby calculating a coefficient of friction and a Preston coefficient of the lapping plate.

## 12. (canceled)

- 13. (currently amended) [[The method of claim 11, wherein step (c) comprises]] A method of predicting the lapping property of a lapping plate, comprising:
- (a) positioning a tool on a lapping plate that is charged with abrasive;
- (b) rotating the lapping plate for a specific time to remove material from the tool;
- (c) restraining the tool relative to the lapping plate by holding the tool with a set of guide wheels that keep the tool in place when the lapping plate is rotating:
- (d) measuring frictional force between the tool and the lapping plate;
- (e) measuring a consumption of the tool by the lapping plate; and
- (f) determining a lapping rate of the lapping plate over a time interval, and assessing the lapping rate and friction to determine if the lapping plate is acceptable, wherein the lapping rate is determined under a fixed load and a fixed rotation speed, and thereby calculating a coefficient of friction and a Preston coefficient of the lapping plate.

- 14. (currently amended) [[The method of claim 11,]] A method of predicting the lapping property of a lapping plate, comprising:
- (a) positioning a tool on a lapping plate that is charged with abrasive;
- (b) rotating the lapping plate for a specific time to remove material from the tool;
- (c) restraining the tool relative to the lapping plate;

. . . . .

- (d) measuring frictional force between the tool and the lapping plate;
- (e) measuring a consumption of the tool by the lapping plate;
- (f) determining a lapping rate of the lapping plate over a time interval, and assessing the lapping rate and friction to determine if the lapping plate is acceptable, wherein the lapping rate is determined under a fixed load and a fixed rotation speed, and thereby calculating a coefficient of friction and a Preston coefficient of the lapping plate; and further comprising

mounting a plurality of specimens to the tool for contact with and consumption by the lapping plate.

- 15. (currently amended) [[The method of claim 11,]] A method of predicting the lapping property of a lapping plate, comprising:
- (a) positioning a tool on a lapping plate that is charged with abrasive;
- (b) rotating the lapping plate for a specific time to remove material from the tool;
- (c) restraining the tool relative to the lapping plate;
- (d) measuring frictional force between the tool and the lapping plate;
- (e) measuring a consumption of the tool by the lapping plate;
- (f) determining a lapping rate of the lapping plate over a time interval, and assessing the lapping rate and friction to determine if the lapping plate is acceptable, wherein the lapping rate is determined under a fixed load and a fixed rotation speed, and thereby calculating a coefficient of friction and a Preston coefficient of the lapping plate; and further comprising

adding a weight to the tool so that the tool and the lapping plate experience a pressure that is analogous to a slider lapping pressure.

16. (original) The method of claim 11, wherein step (d) comprises using a strain gage.